

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 October 2004 (28.10.2004)

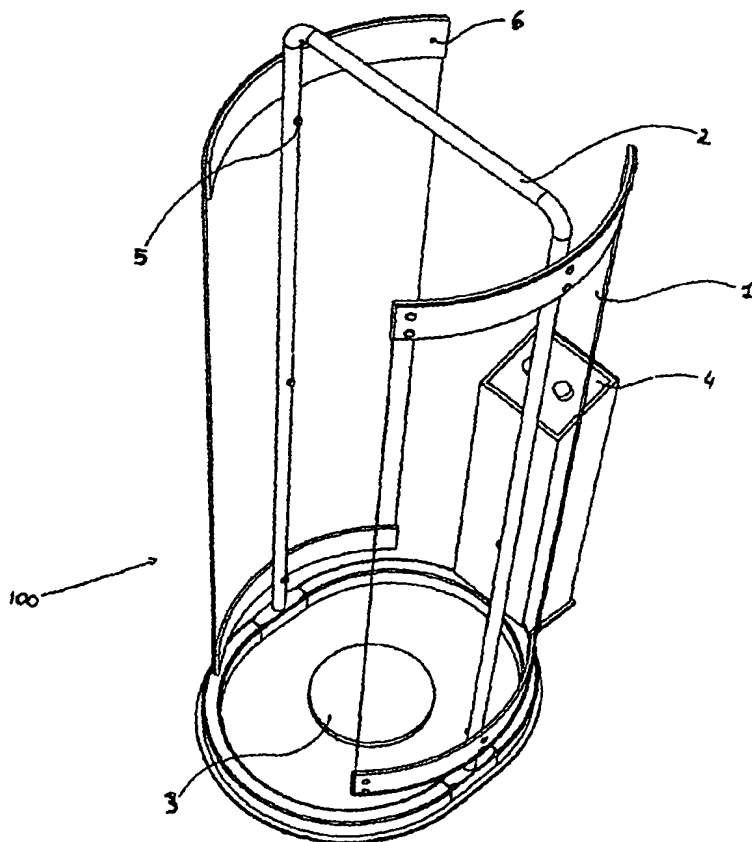
PCT

(10) International Publication Number
WO 2004/091801 A3

- (51) International Patent Classification⁷: **B05B 5/16**, 15/12, 5/053, 1/30, A45D 44/00, 44/04
- (21) International Application Number: PCT/EP2004/050104
- (22) International Filing Date: 10 February 2004 (10.02.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: SV2003A000021 18 April 2003 (18.04.2003) IT
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,

[Continued on next page]

(54) Title: PAINTING METHOD AND APPARATUS



(57) Abstract: A method and apparatus for painting animals and/or objects, using a coating paint product, characterized in that it has: at least one column-like upright member (2) at least one spray nozzle (5) fitted on said column-like upright member at least one tank (20) containing said paint liquid an electrically insulated, shower tray-like platform (3) at least a jet-containing wall (1), which is likely to be situated in front of said column-like upright member (2).



GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
13 January 2005

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/050104

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B05B5/12 B05B15/12 B05B5/053 B05B1/30 A45D44/00
A45D44/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B05B A45D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 387 081 B1 (COOPER TROY H) 14 May 2002 (2002-05-14) column 5, line 43 - line 67 claims; figures	1
X	EP 1 238 642 A (SPECTRUM PRODUCTS INC) 11 September 2002 (2002-09-11) the whole document	1
X	US 2003/000539 A1 (LAUGHLIN THOMAS J) 2 January 2003 (2003-01-02) paragraphs [0153] - [0172] paragraphs [0175] - [0201] paragraph [0206] claims; figures	1
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

30 July 2004

Date of mailing of the international search report

02 11. 2004

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/050104

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 460 192 A (MCCLAIN EDWARD T) 24 October 1995 (1995-10-24) the whole document -----	1
A	WO 97/32558 A (SAENAN S A) 12 September 1997 (1997-09-12) the whole document -----	1
A	EP 0 523 961 A (UNILEVER PLC ; UNILEVER NV (NL)) 20 January 1993 (1993-01-20) the whole document -----	1
P,A	EP 1 314 374 A (HOLLYWOOD TANNING SYSTEM INC) 28 May 2003 (2003-05-28) the whole document -----	1

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP2004/050104

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-71

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

In view of the large number of dependent claims and also the wording of the claims presently on file, which render it difficult, if not impossible, to determine the matter for which protection is sought, the present application fails to comply with the clarity and conciseness requirements of Article 6 PCT (see also Rule 6.1(a) PCT) to such an extent that a meaningful search is impossible. The non-compliance with the substantive provisions is to such extent, that the search was performed taking into consideration the non-compliance in determining the extent of the search (PCT Guidelines, 9.19).

The search was based on claim 1, which appears to comprise a definition of what is understood to be the invention for which protection is sought.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-71

Apparatus with an upright having nozzles, a tank, a platform, and a wall.

2. claims: 72-76

Portable spray gun.

3. claims: 77-92

Method for spraying electrically charged particles

4. claims: 93-95

Method for locally spraying.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/050104

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6387081	B1	14-05-2002	AU 3514900 A 04-10-2000
			CA 2367404 A1 21-09-2000
			EP 1161306 A1 12-12-2001
			JP 2002538910 T 19-11-2002
			WO 0054892 A1 21-09-2000
EP 1238642	A	11-09-2002	US 6443164 B1 03-09-2002
			CA 2364422 A1 08-09-2002
			EP 1238642 A2 11-09-2002
			US 2002112738 A1 22-08-2002
US 2003000539	A1	02-01-2003	US 2002040721 A1 11-04-2002
			US 2002000236 A1 03-01-2002
			US 2001003283 A1 14-06-2001
			US 5922333 A 13-07-1999
			US 2004089315 A1 13-05-2004
			US 2003019504 A1 30-01-2003
			US 2002005208 A1 17-01-2002
			US 2002088475 A1 11-07-2002
			US 2003003124 A1 02-01-2003
			US 2002195119 A1 26-12-2002
			US 6199557 B1 13-03-2001
			US 2003094510 A1 22-05-2003
			US 6298862 B1 09-10-2001
			US 6251374 B1 26-06-2001
			US 6468508 B1 22-10-2002
			US 6416747 B1 09-07-2002
			US 2001029961 A1 18-10-2001
			US 2002000237 A1 03-01-2002
US 5460192	A	24-10-1995	US 5664593 A 09-09-1997
WO 9732558	A	12-09-1997	ES 2130031 A1 16-06-1999
			WO 9732558 A1 12-09-1997
EP 0523961	A	20-01-1993	AU 1967292 A 21-01-1993
			BR 9202672 A 23-03-1993
			CA 2073557 A1 16-01-1993
			EP 0523961 A1 20-01-1993
			JP 5194145 A 03-08-1993
			US 5268166 A 07-12-1993
			ZA 9205271 A 17-01-1994
EP 1314374	A	28-05-2003	CA 2384530 A1 21-05-2003
			EP 1314374 A2 28-05-2003
			PL 353700 A1 02-06-2003
			WO 03045570 A2 05-06-2003
			US 6554208 B1 29-04-2003
			US 2003094509 A1 22-05-2003
			US 2004116880 A1 17-06-2004